V. TANK STORAGE CONDITIONS

A. WASTE IDENTIFICATION

1. The Permittee may store a total volume of 700,000 gallons of liquid in Tanks #1-8, 10 & 11 and 12,806 cubic feet of solids in Tank #9, of waste identified in Permit Condition VII., subject to the terms of this permit.

2. The Permittee is prohibited from storing hazardous waste that is not identified in Permit Condition VII.

B. LOCATION OF TANKS The tanks are located as shown in the site plan in Attachment B.

C. DESIGN OF TANKS The Permittee shall construct, operate, and maintain all tanks as required by either 329 IAC 3.1-9, 40 CFR 264.191, or 264.192, as specified in Process Information, Attachment D, which is incorporated herein by reference.

D. GENERAL OPERATING REQUIREMENTS

1. The Permittee shall not place hazardous wastes in the tank system if they could cause the tank, its ancillary equipment, or a containment system to rupture, leak, corrode, or otherwise fail. (329 IAC 3.1-9, 40 CFR 264.194(a))

   Hazardous waste or treatment reagents must not be placed in a tank system if they could cause the tank system to rupture, leak, corrode, or otherwise fail within the projected life expectancy of the tank, to which the hazardous waste or treatment reagent is regularly and routinely exposed. The projected life expectancy is the time period in which the tank shell thickness is reduced to a point where it no longer meets industrial standards. The facility shall be able to document and demonstrate, upon inspection by Agency representatives, compliance with the following:

   The Permittee shall show compliance with 264.194(a) for tanks by maintaining minimum design shell and bottom plate thicknesses or other tank structural integrity maintenance mechanism based on accepted industrial tank standards such as American Petroleum Institute (API), American Society of Mechanical Engineers (ASME) and Underwriters Laboratory (UL). The facility shall show compliance by any of the following methods:

   a. Routine and systematic tank wall thickness testing utilizing industrial standards and methodology shall be conducted at

a time interval of no more than five (5) years between each testing.

b. Valid corrosivity testing data confirming that the waste or reagents in the tank will not cause failure within the projected life, based on the projected maximum corrosion rate.

c. Any other method which is determined to be essentially equivalent to either of the above methods and is an accepted industrial practice.

Tanks that fail any of the above test methods must be immediately removed from service and replaced, repaired or serviced.

2. The total normal venting capacity shall be at least the sum of the venting requirements for solvent movement and thermal effect. The total inbreathing (vacuum) venting capacity and the total outbreathing (pressure) venting capacity shall be the following (as specified in the table below) cubic feet of free air per hour (CFH). The actual capacity of the vent must be determined by Section 1.5 of the API Standard 2000.

		Flash Point > or = 100^o Fahrenheit & Normal Boiling Point > 300^o Fahrenheit	Flash Point < 100^o Fahrenheit & Normal Boiling Point > 300^o Fahrenheit
Tank	Sum of Inbreathing for Liquid Movement & Thermal Effects (SCFH)	Sum of out-breathing for Liquid Movement & Thermal Effects	Sum of out-breathing for Liquid Movement & Thermal Effects
1	3,928.57	3,928.57	7,738.10
2	3,928.57	3,928.57	7,738.10
3	3,928.57	3,928.57	7,738.10
4	3,928.57	3,928.57	7,738.10
5	3,928.57	3,928.57	7,738.10
6	3,928.57	3,928.57	7,738.10
7	23,571.43	23,571.43	46,428.57
8	15,714.29	15,714.29	30,952.38
10	23,571	23,571	46,429
11	23,571	23,571	46,429

3. The maximum input and output of the tank system shall not exceed 1050 gallons per minute. The maximum pumping rate for each pump shall not exceed 350.

F. Tanks 10 & 11

1. Within one (1) year of the effective date of this modification (date), Lone Star must complete construction/installation of the Tank Systems 10 and 11.

2. Within thirty (30) days from the installation of the Tank Systems 10 and 11, Lone Star must perform the leak test and installation inspection on the Tank Systems 10 and 11 in accordance with 40 CFR 264.192.

3. Within fifteen (15) days of completing the leak test and installation inspection on the Tank Systems 10 and 11, Lone Star must submit the results for the IDEM approval.